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TITLE: CARBON FIBER STRAND
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INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a carbon fiber strand affording a carbon-fiber reinforced resin composite material having excellent tensile strength in the fiber axis direction and excellent interlaminar fracture toughness in the perpendicular direction from the fiber axis.

SOLUTION: The carbon fiber strand is obtained by applying 0.3-5.0 mass% of a sizing agent containing >50 mass% of a two-component epoxy resin prepared by mixing a low-molecular weight epoxy resin having 50-1,000 molecular weight with a high-molecular weight epoxy resin having 3,000-10,000 molecular weight at a mass ratio of (8.5:1.5) to (6.5:3.5). Both the low-molecular weight epoxy resin and the high-molecular weight epoxy resin preferably have a

chemical

structure (a) or (b) of the figure in the molecule.

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